## EAST Search History

| Ref # | Hits | Search Query  | DBs   | Default<br>Operator | Plurals | Time Stamp          |
|-------|------|---|---|---------------------|---------|---------------------|
| L1    | 2    | "20030070581"   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB  | AND                 | OFF     | 2008/08/05<br>08:11 |
| S1    | 54   | (("5990227") or ("1201719") or ("1243624") or ("1243624") or ("0952196") or ("0952196") or ("5181045") or ("5181045") or ("628126") or ("628126") or ("4740796") or ("4740796") or ("4723129") or ("2000129184") or ("1322866") or ("1322866") or ("4463359") or ("44586333") or ("4458632") or ("4313124") or ("4313124") or ("591236570").PN. | US PGPUB;<br>USPAT; USOCR;<br>EPC), JPO;<br>DEFWENT;<br>IBM_TDB | OR                  | OFF     | 2007/09/14          |
| S2    | 2    | ("20060146087").PN.   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB  | OR                  | OFF     | 2007/09/12<br>12:49 |
| S3    | 123  | (amphiphilic and graft)<br>and (viscous or viscosity)<br>with (pH or pKa)   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB  | AND                 | OFF     | 2007/09/12<br>12:56 |
| S4    | 0    | (amphiphilic and graft)<br>and (viscous or viscosity)<br>with (pH or pKa) and S1  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB  | AND                 | OFF     | 2007/09/12<br>12:50 |
| S5    | 6    | (amphiphilic and graft)<br>and (viscous or viscosity)<br>with (pH or pKa) and<br>347/100  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM TDB  | AND                 | OFF     | 2007/09/12<br>12:53 |

| S6  | 0  | (amphiphilic or graft) and (viscous or viscosity) and S1  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | OFF | 2007/09/12<br>12:53 |
|-----|----|---|--|-----|-----|---------------------|
| S7  | 35 | (amphiphilic and graft)<br>and (viscous or viscosity)<br>with (pH or pKa) and ink   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | OFF | 2007/09/12<br>12:58 |
| S8  | 1  | 10/537788   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | OFF | 2007/09/12<br>12:59 |
| S9  | 10 | (("7056972") or<br>("6500880") or<br>("6300391") or<br>("6281267") or<br>("5990227")).PN.   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR  | OFF | 2007/09/12<br>13:05 |
| S10 | 4  | 99 and (amphiphil\$3)   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | OFF | 2007/09/12<br>13:16 |
| S11 | 4  | 99 and (amphiphil\$3) and visco\$5  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | OFF | 2007/09/12<br>13:35 |
| S12 | 4  | 99 and (amphiphil\$3) and visco\$5 and (pH or kPa)  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | OFF | 2007/09/12<br>13:53 |
| S13 | 4  | S9 and (amphiphil\$3) and visco\$5 same (pH or kPa)   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | OFF | 2007/09/12<br>13:52 |
| S14 | 4  | S9 and (amphiphil\$3) and visco\$5 same (pH or kPa or KOH)  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | OFF | 2007/09/12<br>13:52 |
| S15 | 4  | ink and ((amphiphilic)<br>with ((organic near acid)<br>same (pH or kPa or KOH<br>or pKa)) and ((viscous\$4<br>or viscos\$5 or thickness)<br>same (pH or kPa or KOH<br>or pKa))) | US-PGPUB;<br>USPAT; USOCR;<br>EFO; JPO;<br>DERWENT;<br>IBM_TDB | AND | OFF | 2007/09/13<br>13:26 |

| S16  | 6  | ink and ((amphiphilic or<br>graft) with ((organic near<br>acid) same (pH or kPa or<br>KCH or pKa)) and<br>((viscous\$4 or viscos\$5<br>or thickness) same (pH or<br>kPa or KCH or pKa)))                            | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | OFF | 2007/09/13           |
|------|----|---|--|-----|-----|----------------------|
| S17  | 31 | ink and ((amphiphilic or<br>graft or polymer\$5) with<br>((organic near acid) same<br>(pH or kPa or KOH or<br>pKa)) and ((viscous\$4 or<br>viscos\$5 or thickness)<br>same (pH or kPa or KOH<br>or pKa))            | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | OFF | 2007/09/13<br>113:31 |
| S18  | 2  | ("5990227".pn. or<br>"7056972".pn.) and (acid<br>or carboxylic or acetic)   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | OFF | 2007/09/14<br>14:25  |
| S19  | 2  | ("5990227".pn. or<br>"7056972".pn.) and (acid<br>with (kpa or ph))  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | OFF | 2007/09/14<br>13:16  |
| \$20 | 4  | ink and (amphiphilic with<br>organic near acid) and<br>(organic near acid with<br>pKa)  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | OFF | 2007/09/13<br>14:58  |
| \$21 | 11 | ink and (polymer with<br>organic near acid with<br>pKa)   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | OFF | 2007/09/14<br>09:25  |
| S22  | 4  | (organic near acid) with<br>pKa with (two or second)<br>near (ink or liquid or<br>solution) and ink   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | OFF | 2007/09/14<br>10:08  |
| S23  | 4  | (organic near acid) with<br>pKa with (two or second<br>or other or extra) near<br>(ink or liquid or solution)<br>and ink  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | OFF | 2007/09/14<br>09:33  |
| S24  | 15 | (organic near acid) with<br>pKa with (ink or liquid or<br>solution or coat\$3 or fix<br>\$3 or thicken\$3) and (ink<br>same (coat\$3 or fix\$3 or<br>solidify\$3 or coagulat\$3<br>or harden\$3 or thicken<br>\$3)) | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | OFF | 2007/09/14           |

| <b>S</b> 25 | 7  | ((organic or carboxylic or<br>dicarboxylic or benzoic or<br>sulfonic) near acid) with<br>pKa with (two or second)<br>near (ink or liquid or<br>solution) and ink                              | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | OFF | 2007/09/14<br>10:59 |
|-------------|----|---|--|-----|-----|---------------------|
| S26         | 63 | ((organic or carboxylic or<br>dicarboxylic or benzoic or<br>sulfonic) near acid) with<br>pKa with (ink or liquid or<br>solution) and ink  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | OFF | 2007/09/14<br>10:52 |
| S27         | 7  | ((organic or carboxylic or dicarboxylic or o henzolo or sulfonic) near acid) with pKa with (two or second) near (ink or liquid or solution) and ink and (first or one) with pKa               | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | OFF | 2007/09/14<br>11:06 |
| \$28        | 7  | ((organic or carboxylic or<br>dicarboxylic or benzoic or<br>sulfonic) near acid) with<br>pKa with (two or second)<br>near (ink or liquid or<br>solution) and ink and<br>(first) acid with pKa | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | OFF | 2007/09/14<br>11:07 |
| S29         | 7  | (acid) with pKa with (two<br>or second) near (ink or<br>liquid or solution) and ink<br>and (first) acid with pKa  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | OFF | 2007/09/14<br>11:07 |
| S30         | 7  | (acid) with pKa with (two<br>or second) near (ink or<br>liquid or solution) and ink<br>and (first) with acid with<br>pKa  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | OFF | 2007/09/14<br>11:13 |
| S31         | 2  | ink and amphiphilic with<br>block with copolymer and<br>(alkenyl adj ether)   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | OFF | 2007/09/14<br>11:19 |
| S32         | 6  | ink and amphiphilic with<br>block with polymer and<br>(alkenyl adj ether)   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | OFF | 2007/09/14<br>11:19 |
| <b>S3</b> 3 | 3  | ink and amphiphilic same<br>block with co\$1polymer<br>and (alkenyl adj ether)  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM TDB | AND | OFF | 2007/09/14<br>11:24 |

| S36 | 2   | ink and amphiphilic with<br>co\$1polymer and (alkenyl<br>adj ether)                        | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | OFF | 2007/09/14<br>11:24 |
|-----|-----|--|--|-----|-----|---------------------|
| S37 | 6   | ink and amphiphilic with<br>\$3polymer and (alkenyl<br>adj ether)                          | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | OFF | 2007/09/14<br>13:07 |
| S38 | 324 | ink and amphiphilic with<br>\$3polymer   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | OFF | 2007/09/14<br>13:07 |
| S39 | 100 | ink and co\$1polymer and (alkenyl adj ether)   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | OFF | 2007/09/14<br>13:10 |
| S40 | 99  | ink and amphiphilic with<br>∞\$1polymer  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | OFF | 2007/09/14<br>13:07 |
| S41 | 14  | ink and co\$1polymer with (alkenyl adj ether)  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | OFF | 2007/09/14<br>13:10 |
| S43 | 4   | ("5990227".pn. or<br>"7056972".pn.) and (print<br>\$3 or eject\$3)                         | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | OFF | 2007/09/14<br>14:55 |
| S44 | 1   | ("5990227".pn. or<br>"7056972".pn.) and<br>\$3polymer with color\$3                        | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | OFF | 2007/09/14<br>13:21 |
| S45 | 2   | ("5990227".pn. or<br>"7056972".pn.) and<br>\$3polymer with (color\$3<br>or pigment or dye) | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | OFF | 2007/09/14<br>13:22 |

| S47 | 54 | (("5990227") or ("120/17") or ("124/3624") or ("0952196") or ("0952196") or ("5320668") or ("5320668") or ("6320391") or ("6320391") or ("47/40796") or ("47/40796") or ("47/40796") or ("52005484") or ("2000129184") or ("1322866") or ("53138461") or ("4463359") or ("44635800") or ("4345262") or ("4313124") or ("4313124") or ("53123670"), P.N. | US-PCPUB: US-PCPUB: US-PCPUB:                                  | OR  | OFF | 2007/09/14          |
|-----|----|---|--|-----|-----|---------------------|
| S47 | 0  | S46 and (alkenyl adj<br>ether)  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | OFF | 2007/09/14<br>13:50 |
| S48 | 12 | S46 and (acid)  | US PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | OFF | 2007/09/14<br>13:50 |
| S49 | 12 | S46 and (acid)  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2007/09/14<br>13:50 |
| S50 | 1  | S46 and (acid) same (pka<br>or ka)  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2007/09/14<br>13:57 |
| S51 | 9  | ink and (second near<br>(liquid or ink or solution<br>or fix\$3 or harden\$3 or<br>cur\$3)) same (acid) same<br>(pka or ka)   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2007/09/14<br>14:09 |
| S52 | 16 | (347/100 or ink\$1jet\$4)<br>and (alkenyl adj ether)  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | OFF | 2007/09/14<br>14:32 |

| S53 | 5    | (347/100 or ink\$1jet\$4)<br>and (alkenyl adj ether)<br>with co\$1polymer\$3                                | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | OFF | 2007/09/14<br>14:35 |
|-----|------|---|--|-----|-----|---------------------|
| S54 | 2084 | (347/100 or ink\$1jet\$4)<br>and (ether) with co<br>\$1polymer\$3   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | OFF | 2007/09/14<br>14:37 |
| S55 | 10   | (347/100 or ink\$1jet\$4)<br>and (ether) with co<br>\$1polymer\$3 with<br>amphiphilic                       | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | OFF | 2007/09/14<br>14:38 |
| S56 | 56   | (347/100 or ink\$1jet\$4)<br>and (ether) with co<br>\$1polymer\$3 with<br>(hydrophobic with<br>hydrophilic) | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | OFF | 2007/09/14<br>14:40 |
| S57 | 10   | (347/100 or ink\$1jet\$4)<br>and (ether) with co<br>\$1polymer\$3 with<br>(amphiphilic or<br>amphiphatic)   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | OFF | 2007/09/14<br>14:44 |
| S58 | 602  | (347/100 or ink\$1jet\$4)<br>and (ether) with co<br>\$1polymer\$3 with<br>(surfactant)                      | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2007/09/14<br>14:45 |
| S59 | 1    | (347/100 or ink\$1jet\$4)<br>and (alkenyl adj ether)<br>with co\$1polymer\$3 with<br>(surfactant)           | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2007/09/14<br>14:46 |
| S60 | 1    | (347/100 or ink\$1jet\$4)<br>and (alkenyl near ether)<br>with co\$1polymer\$3 with<br>(surfactant)          | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2007/09/14<br>14:46 |
| S61 | 1    | (347/100 or ink\$1jet\$4)<br>and (alken\$3 near ether)<br>with co\$1polymer\$3 with<br>(surfactant)         | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2007/09/14<br>14:46 |
| S62 | 3    | (347/100 or ink) and<br>(alken\$3 near ether) with<br>co\$1polymer\$3 with<br>(surfactant)                  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM TDB | AND | ON  | 2007/09/14<br>14:47 |

| S63 | 4    | (347/100 or ink) and<br>(alken\$3 near ether) with<br>co\$1polymer\$3 with<br>(surfactant or amphiph<br>\$4)   | US PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2007/09/14<br>14:48 |
|-----|------|--|--|-----|-----|---------------------|
| S65 | 3    | (347/100 or ink) and<br>(alken\$3 near ether) with<br>polymer\$3 with<br>(surfactant or amphiph<br>\$4)  | US PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2007/09/14<br>14:48 |
| S66 | 610  | (347/100 or ink\$jet\$4)<br>and (ether) with co<br>\$1polymer\$3 with<br>(surfactant or amphiph<br>\$4)  | US PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2007/09/14<br>14:52 |
| S67 | 3    | ("5990227".pn. or<br>"7056972".pn. or<br>"6247808".pn.) and<br>(ether)   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2007/09/14<br>14:57 |
| S68 | 4    | ("5990227".pn. or<br>"7056972".pn. or<br>"6247808".pn.) and<br>(ether or surfactant)   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2007/09/14<br>15:03 |
| S69 | 3    | ("5990227".pn. or<br>"7056972".pn. or<br>"6247808".pn.) and<br>(ether or surfactant) with<br>(\$3polymer\$4)   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON  | 2007/09/14<br>15:06 |
| S70 | 1212 | (viscous or viscosity) with<br>(pH or pKa) and<br>(347/100 or 106/31\$3)   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | OFF | 2008/02/12<br>08:54 |
| S71 | 88   | (viscous or viscosity) with<br>(pH) with (chang\$3 or<br>alter\$3 or lower\$3 or rais<br>\$3) and (347/100 or<br>106/31\$3)                                    | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | OFF | 2008/02/12<br>08:55 |
| S72 | 1    | (viscous or viscosity) with<br>(pH) with (chang\$3 or<br>alter\$3 or lower\$3 or rais<br>\$3) and (347/100 or<br>106/31\$3) and (pka) and<br>(co\$1polymer\$2) | US-PCPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | OFF | 2008/02/12<br>09:03 |
| S73 | 5    | "20020186288" or<br>"5990227".pn.  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | OFF | 2008/02/12<br>09:10 |

| S74 | 2   | "6247808".pn. and pka<br>and ph   | US PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | OFF | 2008/02/12<br>09:17 |
|-----|-----|---|--|-----|-----|---------------------|
| S75 | 2   | "6247808".pn. and pka<br>and ph and (pka or ph)<br>same (first or second)   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | OFF | 2008/02/12<br>09:23 |
| S76 | 2   | "6247808".pn. and pka<br>and ph and (pka or ph)<br>same (first or second)<br>and (acid with polymer)  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | OFF | 2008/02/12<br>09:26 |
| S77 | 83  | (347/100 or 106/31\$3)<br>and pka and ph and (acid<br>with (co\$1polymer or<br>polymer))  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | OFF | 2008/02/12<br>09:29 |
| S78 | 36  | (347/100 or 106/31\$3)<br>and pka and ph and (acid<br>with (cos*polymer or<br>polymer)) and (aggregat<br>\$3 or coagulat\$3 or<br>harden\$3 or thicken\$3 or<br>viscosity) with ph  | US-PCPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | OFF | 2008/02/12<br>09:29 |
| S79 | 16  | (347/100 or 106/31\$3) and pka and ph and (acid with (co\$1polymer or polymer)) and (aggregat \$3 or coagulat\$3 or thicken\$3 or viscosity) with ph with (contact\$3 or mix\$3 or print\$3 or together or second)                      | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | OFF | 2008/02/12<br>09:42 |
| S80 | 67  | (347/100 or 106/31\$3)<br>and ink same (acid and<br>(polymer or co<br>\$1polymer)) and ph and<br>pka  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | OFF | 2008/02/12<br>15:01 |
| S81 | 214 | ink and ((sato.in. near<br>koichi) or (nakazawa.in.<br>near iku) or (suda.in.<br>near sakae) or (ikegaml.<br>in. near masayuki) or<br>(tsudaki.in. near<br>keiichiro) or (higashi.in.<br>near ryyij) or (yamagishi.<br>in. near keiko)) | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | OFF | 2008/02/12<br>15:10 |

| S82 | 7    | ink and ((sato.in. near koichi) or (nakazawa.in. near ikuo) or (suda.in. near sakae) or (ikegami. in. near masayuki) or (Isubaki.in. near near yuji) or (yamagishi. in. near kelichiro) or (higashi.in. near keliko)) and (organic near acid) and ph and pka   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | OFF | 2008/02/12          |
|-----|------|--|--|-----|-----|---------------------|
| S83 | 5    | ink and ((sato.in. near kolichi) or (nakazawa.in. near ikuo) or (suda.in. near sakae) or (ikegaml. in. near masayuki) or (tsubaki.in. near yeliji) or (yamagishi.in. near yeliji) or (yamagishi.in. near kelich) and (organic near acid) and ph and pka and (((rais\$3 or increas\$3) with yisoosity)) | US-PCPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | OFF | 2008/02/12<br>15:10 |
| S84 | 48   | (347/100 or 106/31\$3)<br>and (ink and (fix\$3 or<br>liquid or harden\$3 or coat<br>\$3 or coagulat\$3)) same<br>acid near organic   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | OFF | 2008/02/14<br>07:57 |
| S85 | 802  | (347/100 or 106/31\$3)<br>and (ink and (fix\$3 or<br>liquid or harden\$3 or coat<br>\$3 or coagulat\$3)) with<br>acid  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | OFF | 2008/02/14<br>08:26 |
| S86 | 702  | (347/100 or 106/31\$3)<br>and (ink and (fixing or<br>liquid or hardening or<br>coating or coagulating or<br>fixer)) with acid  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | OFF | 2008/02/14<br>08:26 |
| S87 | 2737 | (347/100 or 106/31\$3)<br>and ((polymer or $\infty$<br>\$1polymer) same acid)  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | OFF | 2008/02/14<br>08:28 |
| S88 | 1536 | [(347/100 or 106/31\$3)<br>and ((polymer or co<br>\$1polymer) same acid)<br>same (liquid or second or<br>ink or fixing or coating or<br>harden\$3)   | US PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | OFF | 2008/02/14<br>08:29 |

| S89         | 34  | "1243624".pn. or<br>"5990227".pn. or<br>"1245396".pn. or<br>"952196".pn. or<br>"1201719".pn. | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | OFF | 2008/02/14<br>08:31 |
|-------------|-----|--|--|-----|-----|---------------------|
| S90         | 6   | (styrene\$1acrylic acid)<br>with amphiphil\$3  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | OFF | 2008/02/14<br>09:04 |
| S91         | 0   | (methyl near vinyl near<br>ether near maleate) with<br>amphiphilic                           | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | OFF | 2008/02/14<br>09:05 |
| S92         | О   | (methyl near vinyl near<br>ether near maleate) with<br>amphiphil\$3                          | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | OFF | 2008/02/14<br>09:05 |
| S93         | 64  | (methyl near vinyl near<br>ether near maleate)   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | OFF | 2008/02/14<br>09:06 |
| S94         | 0   | (methyl near vinyl near3<br>maleate) same amphiphil<br>\$3                                   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | OFF | 2008/02/14<br>09:07 |
| <b>S</b> 95 | 181 | (methyl near vinyl near3<br>maleate) same acid   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | OFF | 2008/02/14<br>09:07 |
| S96         | 158 | (methyl near vinyl near3<br>maleate) with acid   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | OFF | 2008/02/14<br>09:07 |
| S97         | 132 | ethylene near oxide near<br>propylene near oxide<br>same amphiphil\$3                        | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | OFF | 2008/02/14<br>09:08 |
| S98         | 2   | "5990227".pn.  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM TDB | AND | OFF | 2008/02/14<br>09:18 |

| S99  | 2    | (methyl adj vinyl adj ether<br>\$1monoethyl adj<br>maleate)   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | OFF | 2008/02/14<br>09:20 |
|------|------|---|--|-----|-----|---------------------|
| S100 | 0    | (methyl adj vinyl adj ether<br>\$1monoethyl adj<br>maleate) same (amphiphil<br>\$3 or (hydrophobic and<br>hydrophilic)) | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | OFF | 2008/02/14<br>09:20 |
| S101 | 4    | (methyl adj vinyl adj ether<br>\$1monoethyl)  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | OFF | 2008/02/14<br>09:21 |
| S103 | 3309 | ((methyl near vinyl near<br>ether) or (monoethyl<br>near maleate)) near3 acid   | US PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | OFF | 2008/02/14<br>09:28 |
| S104 | 0    | ((methyl near vinyl near<br>ether) or (monoethyl<br>near maleate)) near<br>organic adj acid                             | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | OFF | 2008/02/14<br>09:28 |
| S105 | 28   | ((methyl near vinyl near<br>ether) or (monoethyl<br>near maleate)) with<br>organic adj acid                             | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | OFF | 2008/02/14<br>09:29 |
| S106 | 843  | ((methyl near vinyl near<br>ether) or (monoethyl<br>near maleate)) with<br>(hydrophobic or<br>hydrophilic)              | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | OFF | 2008/02/14<br>09:32 |
| S107 | 20   | (monoethyl near<br>maleate) with<br>(hydrophobic or<br>hydrophilic)   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | OFF | 2008/02/14<br>09:33 |
| S108 | 20   | (monoethyl near<br>maleate) with<br>(hydrophilic)   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | OFF | 2008/02/14<br>09:34 |
| S109 | 0    | (monoethyl near<br>maleate) with<br>(hydrophobic)   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM TDB | AND | OFF | 2008/02/14<br>09:34 |

| S110 | 266   | ((methyl near vinyl near<br>ether)) with<br>(hydrophobic)  | US PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | OFF | 2008/02/14<br>09:34 |
|------|-------|--|--|-----|-----|---------------------|
| S111 | 13354 | ((methyl near vinyl near<br>ether) or (monoethyl<br>near maleate)) with<br>(acid)  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | OFF | 2008/02/14<br>09:48 |
| S112 | 13    | pka same (mono\$1ethyl<br>near maleate)  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | OFF | 2008/02/14<br>09:51 |
| S113 | 625   | pka same (acrylic acid)  | US PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | OFF | 2008/02/14<br>09:51 |
| S114 | 1     | pka with (mono\$1ethyl<br>near maleate)  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | OFF | 2008/02/14<br>09:54 |
| S115 | 669   | (maleic near acid) same<br>pKa   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | OFF | 2008/02/14<br>10:00 |
| S116 | 185   | (maleic near acid) same<br>(acrylic near acid) same<br>pKa   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | OFF | 2008/02/14<br>10:01 |
| S117 | 3     | (maleic near acid) same<br>(acrylic near acid) same<br>pKa same table  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | OFF | 2008/02/14<br>10:01 |
| S118 | 578   | (polymer or co<br>\$1polymer) near3<br>(surround\$3 or encapuslat<br>\$3 or enclos\$3 or cover<br>\$3) near4(functional or<br>colorant or dye or<br>pigment) | US-PGPUB;<br>USPAT; USOCR;<br>EFO; JPO;<br>DEHWENT;<br>IBM_TDB | AND | OFF | 2008/02/15<br>11:47 |

| S119 | 28   | [(polymer or co<br>\$1polymer) near3<br>(surround\$3 or encapuslat<br>\$3 or endos\$3 or cover<br>\$3) near4 (functional or<br>colorant or dye or<br>pigment) and (347/100<br>or 103/31\$3) | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | OFF | 2008/02/15<br>11:58 |
|------|------|---|--|-----|-----|---------------------|
| S120 | 3    | ("5990227".pn. or<br>"7056972".pn.) and print<br>\$3  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | OFF | 2008/02/15<br>12:08 |
| S121 | 2    | "5990227".pn.   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | OFF | 2008/07/23<br>09:03 |
| S123 | 2    | (liquids or inks) near4<br>different near4 (pH) and<br>(organic adj acid same<br>sulfonic) and 347/100  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | OFF | 2008/07/23<br>10:15 |
| S124 | 2    | "5399296".pn.   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | OFF | 2008/07/23<br>10:31 |
| S125 | 1239 | pKa same sulfonic adj<br>acid   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | OFF | 2008/07/23<br>10:37 |
| S126 | 52   | pKa same sulfonic adj<br>acid same table  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | OFF | 2008/07/23<br>10:37 |
| S127 | 1    | "20030070581" and (acid<br>same viscosity)  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | OFF | 2008/07/23<br>10:41 |

<sup>8/5/2008 8:17:16</sup> AM

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